



ADP 3.09 Fires Logic Diagram

Anticipated Operation Environment

- US Fires must continue complementary and interdependent forward presence in order to deter regional and cross AOR threats.
- US Fires must decide detect, deliver, and assess target early enough with respect to range and altitude to destroy, neutralize, or suppress potential threats and create effects in support of national and strategic objectives.
- Size of theater, non-linear nature of combat, omni-directional nature of threats, and dispersal of critical assets will require US Fires to integrate all forms of Joint and Coalition fires and scalable capabilities within the area of operations.

Unified Action

Central Idea: synchronization, coordination, and/or integration of the activities of government and non-governmental entities with military operations to achieve unity of effort (JP1)



Unified Land Operations

Seize, retain, and exploit the initiative to gain and maintain a position of relative advantage in sustained land operation in order to create the conditions for favorable conflict resolution

Fires Executes through...

Decisive Action

Offensive, Defensive, and Stability

By means of...

Army Core Competencies

Guided by...

Mission Command

1. Fires in support of Unified Land Operations



Roles

- · Field Artillery
- Air Defense Artillery

Core Competencies

 Fires in Support of Offensive, Defensive, and Stability Tasks

Critical Capabilities

- · Target Acquisition
- · Target Description
- Target Engagement

2. Foundational Fires Principles



Characteristics

- All Weather
- Precision/Near Precision Fires
- Area Fires
- Inherently Joint
- · Air and Space Integration

Principles

- Precision
- Scalable
- Networked
- Responsive
- Synchronized

3. Fires Execution





Fires Tasks

- Deliver Fires
- Integrate all Forms of Army, Joint, and Multinational Fires
- Conduct Targeting

Capabilities

- Army Integrated Fires
- · Air and Missile Defense
- Early Warning Sensors
- Joint Fires Including Electronic Attack

Integrate and synchronize weapon systems and sensors in order to achieve lethal and nonlethal effects in support of unified land operations and the maneuver commander's requirements and objectives.

CURRENT AS OF 4 DECEMBER 2012 SLIDE 2



Fires Center

- Make it more effective (JFU), 3 BDE, 4 Schools
- ALM (Army Learning Model)
- Leader Development
- Training
- Non-lethal Fires
- Electric Fires

Portfolio (STRATCOM)

- Comprehensive
- · Prevent, Shape, Win
- Gaps and strategy to close
- Reduce redundancy

Fort Sill

- Physical Fitness
- Information Distribution
- Customer Service

Air and Missile Defense Gaps

- Common Networked Mission Command
- Counter-UAS
- Cruise Missile Defense
- Counter-RAM
- Early Release Sub-Munitions
- Persistent, Elevated Sensors
- NTC / Avenger / National Guard
- Air Sea Battle / GAMOA*

Field Artillery Gaps

- Common Networked Mission Command
- Target Location Error
- 360 Degree Radar Coverage and Range
- Precision and Area Fires
- Force Protection/Survivability
- Long Range Fires
- Modernize Gunnery
- Fires Headquarters EAB
- Reinforcing Cannons

"Fires: 8% of the Force - Best Bang for the Buck"

ATACMS/GMLRS

ATACMS - Army Tactical Missile System

- Internal Navigation/GPS Guidance with a 160km Range
- 525 Missions Fired
- 63% in support of pre-planned targets

GMLRS - Guided Multiple Launch Rocket System

- GPS Guidance with a 15-70 km Range
- 2,330 Rounds Fired
- 76% in support of pre-planned targets
- 97% of missions fired into urban terrain

Howitzer Systems

155mm - Paladin & M777

- 322,019 Rounds Fired
- 72% High Explosive Missions
- 8% Smoke Missions
- 20% Illumination Missions
- 236 Excalibur Rounds Fired Precision Guided

105mm - M119

- 208,970 Rounds Fired
- 71% High Explosive Missions
- 9% Smoke Missions
- 20% Illumination Missions

Patriot

PATRIOT - 9 Engagements with 25 Missiles Fired

- 8 of 9 Engagements achieving Warhead Kill
- Successfully detected, traced, engaged and intercepted missiles threatening defended areas

Combat Vignettes

- Successful intercept of enemy missiles targeting Camp DOHA (CFLCC Headquarters) in March 2003
- Successful Intercept of enemy missiles targeting TAA Thunder (101st Airborne Assembly Area) in March 2003

C-RAM/IFPC*

C-RAM - 20mm

- 175+ Intercepts in support of OIF/OND
- 2,500+ Attack Sense & Warn

Combat Vignettes

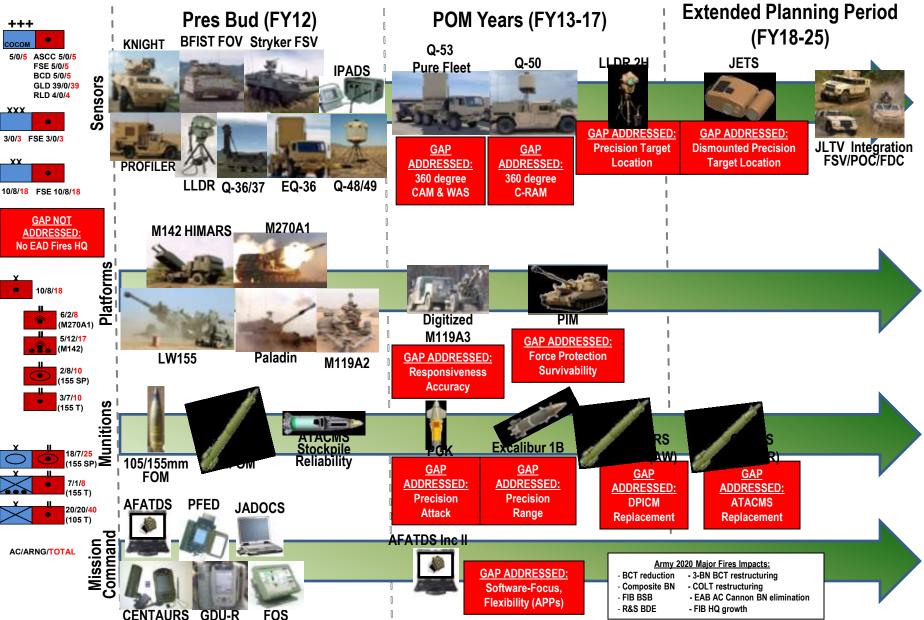
- Successful rocket detection and destruction at Victory Base protecting more than 3,000 Service Members and Civilians at Toby Keith MWR Concert in May 2007
- Successful rocket detection and destruction at Dodge City South LSA protecting more than 300 Service Members and Civilians in October 2010

*C-RAM (Counter Rocket Artillery Mortar/IFPC (Indirect Fire Protection Capability)

Air and Missile Defense **Modernization Strategy Extended Planning Period GAP NOT** Pres Bud (FY12) POM Years (FY13-17) ADDRESSED: (FY18-25) AAMDC per COCOM Shooters +++ MSE Stinger Terminal High PAC-3 **CRAM** COCOM Missile 1 Altitude Area **GAP ADDRESSED: Indirect Fire Protection** Missile **GAP ADDRESSED:** Defense Stinger SLEP: C-UAS Capability (IFPC) Increment 2 5/0/5 MSE: Increased SRBM **Intercept Capability GAP ADDRESSED:** IFPC Inc 2: C-RAM Incremental Post Deployment Build Field capability - Medium Range Software Upgrades increase Ballistic Missile (MRBM) intercept performance against emerging threats capability (exo-atmospheric) •Extends Service Life Х Sensor Procure new capability persistent, elevated & netted senso AN/TPY 2 **Improved GAP ADDRESSED: JLENS: Persistent Elevated** Sentinel Joint Land Attack Cruise Missile Patriot Config-3 Cruise Missile /UAS Detection **GAP ADDRESSED: Defense Elevated Netted Sensor Improved Sentinel: Greater** System (JLENS) **C-UAS Detection Capability** Mission IBCS gradually replaces **GAP ADDRESSED: Integrated AMD Battle** AMDPCS / FAADC2 AC/ARNG/TOTAL **IBCS: Common ADA** Command System (IBCS) IBCS Plug-and-Fight Kits **GAP ADDRESSED: Mission Command Node** Plug and Fight: Networked placed on AMD Sensors & **Enabled Systems** Shooters

+++ 5/0/5 ASCC 5/0/5 FSE 5/0/5 BCD 5/0/5 Sensors GLD 39/0/39 RLD 4/0/4 XXX 3/0/3 FSE 3/0/3

Field Artillery Modernization Strategy





Discussion

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